

WHAT IS CLAIMED IS:

1. A container for holding printing fluid material, the container being configured to be attached to a printing device and communicating with the printing device via a radio wave, the container comprising:

a detector configured to detect a status of the printing fluid material held in the container;

a memory unit configured to store information regarding the container;

a communication module configured to transmit at least one of a result of the detection and the information regarding the container to the printing device;

a first electric power generator configured to generate a first electric power by utilizing the radio wave received from the printing device; and

a second electric power generator configured to generate a second electric power from the first electric power, the second electric power being supplied to both the detector and the memory unit.

2. The container in accordance with claim 1, wherein the second electric power generator comprises a boosting circuit configured to boost the first electric power.

3. The container in accordance with claim 2, wherein the boosting circuit is a charge pump.

4. The container in accordance with claim 1, wherein the detector comprises a sensor of a piezoelectric element.

5. The container in accordance with claim 1, wherein
the memory unit is a rewritable non-volatile memory that
requires a higher voltage for rewriting and erasing of stored data than
a voltage required for reading the stored data.

6. The container in accordance with claim 1, further
comprising:

a voltage drop module configured to drop a voltage of the
electric power supplied to at least one of the detector and the memory
unit.

7. The container in accordance with claim 6, wherein
the voltage drop module includes at least one diode connected
in series between the second electric power generator and at least one
of the detector and the memory unit.

8. The container in accordance with claim 6, wherein
the voltage drop module includes at least one diode connected
in parallel with at least one of the detector and the memory unit.

9. A container for holding printing fluid material, the container
being configured to be attached to a printing device and
communicating with the printing device via a radio wave, the
container comprising:

a first electric power generator configured to generate a first
electric power by utilizing the radio wave received from the printing
device;

a plurality of operating circuits configured to operate at a
higher operating voltage than a voltage of the first electric power; and

a boosting circuit configured to boost the first electric power,

the boosting circuit being shared by at least part of the plurality of operating circuits.

10. The container in accordance with claim 9, wherein the boosting circuit is shared by the plurality of operating circuits requiring a substantially same operating voltage.

11. The container in accordance with claim 9, wherein the boosting circuit is shared by the plurality of operating circuits having different operating timings.

12. The container in accordance with claim 9, further comprising:

a voltage drop module configured to drop a voltage of the electric power supplied from the boosting circuit, supplied to the part of the plurality of operating circuits, the plurality of operating circuits receiving electric power supplied from the boosting circuit.

13. The container in accordance with claim 12, wherein the voltage drop module includes at least one diode connected in series between the boosting circuit and the part of the plurality of operating circuits.

14. The container in accordance with claim 12, wherein the voltage drop module includes at least one diode connected in parallel with the part of the plurality of operating circuits.